

OXIDIZING COMPOSITION AND USES FOR DYEING, FOR
PERMANENTLY RESHAPING OR FOR BLEACHING KERATIN FIBRES

5 The present invention relates to an oxidizing
composition intended for treating keratin fibres,
comprising at least one enzyme of 2-electron
oxidoreductase type in the presence of at least one
donor for the said enzyme and at least one nonionic
amphiphilic polymer containing at least one fatty chain
10 and at least one hydrophilic unit, as well as to its
uses for dyeing, for permanently reshaping or for
bleaching keratin fibres, in particular human hair.

15 It is known to dye keratin fibres, and in
particular human hair, with dye compositions containing
oxidation dye precursors, in particular para-
phenylenediamines, ortho- or para-aminophenols and
heterocyclic bases which are generally referred to as
oxidation bases. Oxidation dye precursors, or oxidation
bases, are colourless or weakly coloured compounds
20 which, when combined with oxidizing products, can give
rise to coloured compounds and dyes by a process of
oxidative condensation.

25 It is also known that the shades obtained with
these oxidation bases can be varied by combining them
with couplers or colour modifiers, the latter being
chosen in particular from aromatic meta-diamines, meta-
aminophenols, meta-diphenols and certain heterocyclic
compounds.

30 The variety of compounds used as regards the
oxidation bases and the couplers allows a wide range of
colours to be obtained.

35 The so-called "permanent" coloration obtained
by means of these oxidation dyes must moreover satisfy
a certain number of requirements. Thus it must have no
toxicological drawbacks, it must be able to give shades
of the desired intensity and it must be able to

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